



Datasheet for ABIN954050

anti-Protocadherin gamma Subfamily C, 3 (PCDHGC3) (AA 518-547), (Middle Region) antibody



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3 Images

Overview

Quantity:	0.4 mL
Target:	Protocadherin gamma Subfamily C, 3 (PCDHGC3)
Binding Specificity:	AA 518-547, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the central region (between 518-547aa) of human PCDHGC3.
Isotype:	Ig Fraction
Specificity:	This antibody recognizes PCDHGC3.
Purification:	Purified through a Protein A column followed by peptide affinity purification

Target Details

Target:	Protocadherin gamma Subfamily C, 3 (PCDHGC3)
Alternative Name:	PCDHGC3 (PCDHGC3 Products)

Target Details

Background: The PCDHGC3 gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes. Synonyms: PC-43, PC43, PCDH-gamma-C3, PCDH2, Protocadherin 2, Protocadherin 43, Protocadherin gamma-C3, Protocadherin-2, Protocadherin-43

Molecular Weight: 101077 Da

Gene ID: 5098

NCBI Accession: [NP_002579](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS with 0.09 % (W/V) Sodium azide

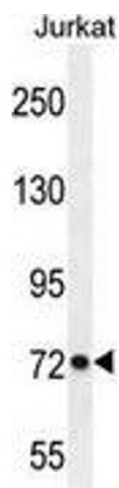
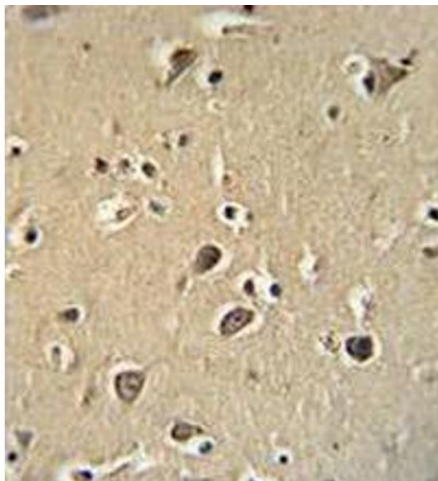
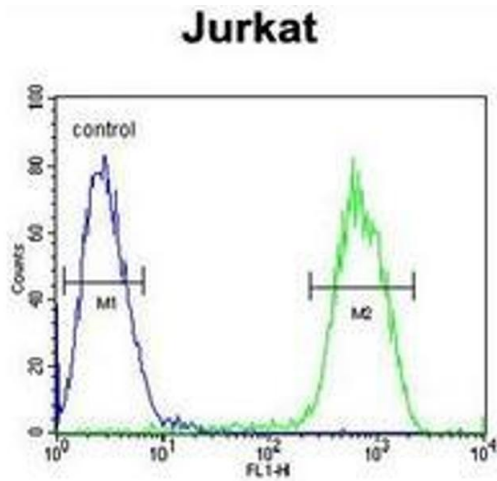
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Flow Cytometry

Image 1. Flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram) using PCDHGC3 Antibody , followed by FITC-conjugated goat-anti-rabbit secondary antibodies.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry analysis human brain tissue (Formalin-fixed, Paraffin-embedded) using PCDHGC3 Antibody , followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PCDHGC3 antibody for IHC; Clinical relevance has not been evaluated.

Western Blotting

Image 3. Western blot analysis in Jurkat cell line lysates (35ug/lane) using PCDHGC3 Antibody . This demonstrates the PCDHGC3 antibody detected the PCDHGC3 protein (arrow).